

## **A - GENERAL**

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## Document Convention

### Typefaces

<b>Bold</b>	<p>Can indicate several items. First a command name, parameter name, or dialog box title. Command paths are shown using an arrow between command names.</p> <p>Example: Choose <b>File</b> &gt; <b>Open</b> to load a new file.</p> <p>Second, a system prompt or message, which requires an action be taken by the user.</p> <p>Example: <b>Select first segment of alignment</b></p>												
ALL CAPS	<p>Used for project related variable in names of Files and Folders.</p> <p>Example: minn1234.dgn would be shown as COUNPCN#.dgn</p> <p>PCN# refers to the four-character designation for the PCN COUN refers to the four-character designation for the county STA refers to station (expressed without +00) ALIGN refers to alignment name</p>												
?	<p>Used in file name to indicate a variable.</p> <table><tr><td>r</td><td>-Rural scale</td></tr><tr><td>s</td><td>-Suburban scale</td></tr><tr><td>u</td><td>-Urban scale</td></tr></table> <p>Example: t1234u.dgn would be shown as tPCN#?.dgn</p>	r	-Rural scale	s	-Suburban scale	u	-Urban scale						
r	-Rural scale												
s	-Suburban scale												
u	-Urban scale												
XX	<p>Used in folder name to indicate different groups.</p> <table><tr><td>regionA</td><td>Aberdeen Region</td></tr><tr><td>regionM</td><td>Mitchell Region</td></tr><tr><td>regionP</td><td>Pierre Region</td></tr><tr><td>regionRC</td><td>Rapid City Region</td></tr><tr><td>rd</td><td>Road Design</td></tr><tr><td>br</td><td>Bridge Design</td></tr></table> <p>Example: RegionP would be shown as RegionXX or rd would be shown as XX.</p>	regionA	Aberdeen Region	regionM	Mitchell Region	regionP	Pierre Region	regionRC	Rapid City Region	rd	Road Design	br	Bridge Design
regionA	Aberdeen Region												
regionM	Mitchell Region												
regionP	Pierre Region												
regionRC	Rapid City Region												
rd	Road Design												
br	Bridge Design												

## **Drives**

All project related files will be worked on and stored on the server. The server is “\\Espr1c6srv\dot” which is mapped as your U: . This drive could be referred to as the U: drive or server.

All configuration and other miscellaneous file for MicroStation and InRoads are stored on the local drive or C: .

## **Shortcuts**

Since almost all files for each project are in the project folder you may want to create a shortcut to that folder.

### **Shortcut to Folder**

1. Using Window Explorer browse to prj folder.
2. Right Click the project folder – Select **Copy**.
3. Right Click on your Desktop – Select **Paste shortcut**.

## **Project Folders**

Project Folders will be broken up by regions and groups. Project Folders should always begin with COUN (the four-character abbreviation is found on sheet A-6) and end with PCN# (Project Control Number). Project Folders should always be a sub folder of the prj folder. Approval is required for additional folders other than those listed below.

Abandonment transfers will be stored in separate folders as a sub folder of Aban\_Trans. They will also be broken up by regions and groups, and will begin with COUN (the four-character abbreviation is found on sheet A-6) and end in PCN# ( the PCN or assigned ID ).

Note: If the project is in multiple counties, then use the county that is the farthest West or South. If the project is statewide then use SD. If the project is regionwide then use REG.

Note: If a set of plans will include multiple projects, a primary project should be selected for file storage. This primary project would be selected first by major work and if needed by the furthest west or south project, then highway classification (even over odd highway number if same classification).

Note: If a PCN does not exist for the work being done then store the files in Misc not prj or get a PCN assigned.

## **Naming Convention**

Some of the standard naming conventions have been listed below. If you need to create a file that doesn't have an established name then create one that has some meaning. File names such as "junk", "bob", etc. are unacceptable. Refrain from spaces dashes in filenames.

Files containing information for the entire project shall include PCN# in the file name. Generally these files are a complete project layout and are to be a State Plane Coordinates.

- 1. Survey :** The following files are available from survey in the region project folder:  
(U:\regionXX\prj\COUNPCN#) (These files are read only in the Central Office)

<b>Name</b>	<b>Created By:</b>	<b>Description</b>
PCN#org.dtm	Field Office	Original Ground Surface
PCN#org.alg	Field Office	Original Survey Geometry
PCN#lt.alg	Road Design	Add'l Land Tie Geometry (only if surveyed separately)
tPCN#?.dgn	Field Office	Topography (Graphics)
PCN#lt.dgn	Road Design	Add'l Land Ties (Graphics) (only if surveyed separately)

- 2. Road Design :** The following files are available from road design project folder: (U:\rd\prj\COUNPCN#)

All files from other offices will be referenced or opened from their appropriate folder. All efforts should be made to not copy files from other office's folders.

**MicroStation Files:** (U:\rd\prj\COUNPCN#)

<b>Type</b>	<b>Name</b>	<b>Logical</b>	<b>Description</b>
Subsurface Files	uPCN#?.dgn	u	Subsurface Utilities Project Layout
	rPCN#.dgn	r	ROW Project Layout
	stripmap.dgn		Strip Map for Project
	mosaic.dgn		Project Mosaic
Drafter Files	dPCN#?.dgn	d	Drafting Project Layout
	cgPCN#.dgn	cg	Curb and Gutter Project Layout
	fPCN#.dgn	f	Traffic Project Layout
Engineer Files	ePCN#.dgn	e	Designer Project Layout
	xPCN#.dgn	x	Cross Sections
	pPCN#.dgn	p	Pipe Cross Sections
	prPCN#.dgn		Pavement Removal Project Layout
	gPCN#.dgn	g	Erosion Control Project Layout
	yPCN#.dgn		Traffic Designer Project Layout
	stakePCN#.dgn		Layout used for Construction Staking
	sPCN#.dgn		Storm Sewer Project Layout
	grPCN#.dgn		Guardrail Project Layout
	cPCN#.dgn	c	Contours and Triangles Project Layout
Plan Sheets	title.dgn		Title Sheet
	title?.dgn		Cover Sheet for Section (b-z)
	NotesSection?.dgn		Note Sheet(s) for Section (b-z)
	NotesNonSection.dgn		Note Sheet(s) for NonSection method
	TableConduit.dgn		Table of Conduit Quantities Sheet(s)
	WiringTables.dgn		Signal Wiring Tables
	TableFence.dgn		Table of Fence Quantities Sheet(s)
	TablePipe.dgn		Table of Pipe Quantities Sheet(s)
	TableCG.dgn		Table of Curb & Gutter Quantities Sheet(s)
	DataControl.dgn		Control Data Sheets(s)
	DataHoriz.dgn		Horizontal Alignments Data Sheets(s)
	DataSubSurface.dgn		SubSurface Data Sheet(s)
	typ.dgn		Typical Sheet(s)
	Legend.dgn		Section B Legend Sheet
	STA.dgn		Plan /Profile Sheets (Beginning Station)
	STAv.dgn		Profile Sheet (Beginning Station)

**MicroStation Files: (U:\rd\prj\COUNPCN#) Continued**

Type	Name	Logical	Description
Plan Sheets	STAcg.dgn		Curb & Gutter Sheets (Beginning Station)
	STAc.r.dgn		Curb Ramp Layout Sheets (Ramp Station)
	STAgr.dgn		Guard Rail Sheets (Beginning Station)
	STApr.dgn		Pavement Removal Sheets (Beginning Station)
	STAp#.dgn		Plats (Beginning Station)
	STAc#.dgn		Exhibits (Beginning Station)
	STARow.dgn		ROW Plan Sheets (Beginning Station)
	STAc.dgn		Conduit Sheets (Intersection Station)
	STAs.dgn		Existing Signal Sheets (Intersection Station)
	STAs.dgn		Signal Sheets (Intersection Station)
	STAp.m.dgn		Pavement Marking Sheets (Begin or Inter. Sta)
	STASTAr.dgn		Lighting Removal Sheets (Begin Sta-End Sta)
	STASTAw.dgn		Field Wiring Diagrams (Begin Sta-End Sta)
	STAtime.dgn		Signal Timing Diagram
	tsd.dgn		Time-Space Diagram
	STAss.dgn		Alternate - Storm Sewer Sheets (Begin Station)
	STARw.dgn		Alternate - ROW Layout Sheets (Begin Station)
	STAec.dgn		Erosion Control Sheets (Beginning Station)
	STAla.dgn		Landscape Sheets (Beginning Station)

**Note: For Non-Mainline Sheets include Alignment Name(See Below) after STA.**

**MicroStation Files: From other Offices (U:\XX\prj\COUNPCN#)**

Type	Name	Logical	Description
Survey Files	tPCN#?.dgn	t	Topography Project Layout
	PCN#lt.dgn	lt	Land Ties (only if surveyed separately)
Surfacing	jPCN#.dgn	j	Surfacing Joint Project Layout (XX refers to ms)
Bridge	bPCN#.dgn	b	Bridge Project Layout (XX refers to br)

**Print Organizer Plot Sets: (U:\rd\prj\COUNPCN#)**

PCN#_Section?.pset	All MicroStation Sheets for the Section.
PCN#_NonSection.pset	All MicroStation Sheets
PCN#_Plats.pset	All Plats for the Project.
PCN#_ROWPlans.pset	All ROW Plan Sheets for Project

**InRoads Files:** (U:\rd\prj\COUNPCN#)

Type	Name	Location
Project File	PCN#.rwk	(U:\rd\prj\COUNPCN# )
Geometry Files		
ROW	rPCN#.alg	(U:\rd\prj\COUNPCN# )
Drafter	dPCN#.alg	(U:\rd\prj\COUNPCN# )
Traffic Drafter	fPCN#.alg	(U:\rd\prj\COUNPCN# )
Engineer	ePCN#.alg	(U:\rd\prj\COUNPCN# )
Survey	PCN#org.alg	(U:\regionXX\prj\COUNPCN# )
	PCN#lt.alg	(U:\regionXX\prj\COUNPCN# )
Template Libraries		
Base	sddot.itl	(U:\rd\Bentley\V8i\InRoads\data\English )
Project	PCN#.itl	(U:\rd\prj\COUNPCN# )
Roadway Design File*	PCN#.ird	(U:\rd\prj\COUNPCN# )
Surfaces		
Original	PCN#org.dtm	(U:\regionXX\prj\COUNPCN# )
Design	ALIGN.dtm	(U:\rd\prj\COUNPCN# )
surface for Storm Sewer	storm.dtm	(U:\rd\prj\COUNPCN# )
surface for Select Topping	select.dtm	(U:\rd\prj\COUNPCN# )
Existing Subsurface Utilities	utilites.dtm	(U:\rd\prj\COUNPCN# )
Strom and Sanitary Drainage file	PCN#.sdb	(U:\rd\prj\COUNPCN# )
Preference File	XX.xin	(C:\dot\XX\data )

**\*Note: For Corridor Name use Alignment Name.**

**Alignment Names:**

mainline	construction center line
US##	Intersecting Highway - number proceeded by SD or US (EX. SD45)
xrSTA	minor cross roads - mainline station of intersection (EX. xr445 for cross road at 445+21)
frSTA	frontage roads - beginning station which matched mainline stationing. (EX. fr445 for frontage road starting at 445+21)
detSTA	detour - mainline station of intersection
divSTA	diversion - mainline station of intersection
drSTA	drainage alignment - mainline station of intersection
rampA	ramp naming convention – see Road Design Manual Chapter 13 – Interchanges (pg 13-8 to 13-10)labeling alphabetically starting in NE quad
EB	divided highways with two mainlines (EX. SB for southbound)
b#	section lines, quarter lines, sixteen lines, property lines, etc.
e#	existing row line
ec#	existing center line
A#	proposed row lines
te#	temporary easements
area#	Areas for ROW
T#	Ties for areas

**Deliverable Files:** (U:\rd\prj\COUNPCN#)\*

PCN#_Plats.pdf	All sheets for plats
PCN#_ROWPlans.pdf	All sheets for ROW plans
PCN#_Section?.pdf	All sheets for section.
PCN#_NonSection.pdf	All sheets for Non-section method.
PCN#_Section?Add#.pdf	Sheets revised for Addendum
PCN#_Section?CCO#.pdf	Sheets revised for CCO
PCN#_Specifications.pdf	All specification sheets (For Utility project only).
PCN_ChecklistForm.docx	Special Provision Checklist

\* PDFs that are not Deliverables are stored in the Documents subfolder (if useful to others).

**Adobe Acrobat Files:** (U:\rd\prj\COUNPCN#\documents) – most used as reference to create sheets.

Checklistgrading.pdf	Check list for grading.
Checklisttraffic.pdf	Check list for traffic.
Section_A-EstimateofQuantitiesandEnvironmentalCommitments.pdf	All Notes for Section A
Section_B-Grading_Notes.pdf	All Notes for Section B
Section_D-Erosion_Control_Notes.pdf	All Notes for Section D
Section_H-Landscaping_Notes.pdf	All Notes for Section H
Section_L-Lighting_and_Signals_Notes.pdf	All Notes for Section L
Section_M-Pavement_Marking_Notes.pdf	All Notes for Section M
NonSection_Notes.pdf	All Notes for Non-section
Control_Data.pdf	All Control Data
Horizontal_Alignment.pdf	All Horiz. AlignmentsData
Subsurface_Utility_Locations.pdf	All SubSurface Location Data
Table_of_Fence_Quantities.pdf	All Fence Quantities
Table_of_Pipe_Quantities.pdf	All Pipe Quantities
Table_of_Conduit_Quantities.pdf	All Conduit Quantities
Table_of_Pavement_CG_Sidewalk_Quantities.pdf	All Curb & Gutter Quantities
StripMap.pdf	Strip Map for Project
WiringTables.pdf	Signal Wiring Tables

**Other Files:**

ewPCN#.xls	Earthwork Computation Worksheets for Project.
Section_A-EstimateofQuantitiesand EnvironmentalCommitments.docx	Section A Notes for Project.
Section_B-Grading_Notes.docx	Section B Notes for Project.
Section_D-Erosion_Control_Notes.docx	Section D Notes for Project.
Section_H-Landscaping_Notes.docx	Section H Notes for Project.
Section_L-Lighting_and_Signals_Notes.docx	Section L Notes for Project.
Section_M-Pavement_Marking_Notes.docx	Section M Notes for Project.
NonSection_Notes.docx	Notes for Project NonSection Method.
Control_Data.docx	Control Data for Project.
Horizontal_Alignment.docx	Horizontal Alignment Data for Project.
Subsurface_Utility_Locations.docx	SubSurface Utility Locations Data for Project.
Table_of_Fence_Quantities.xlsx	Table of Fence Quantities for Project.
Table_of_Pipe_Quantities.xlsx	Table of Pipe Quantities for Project.
Table_of_Conduit_Quantities.xlsx	Table of Conduit Quantities for Project.
Table_of_Pavement_CG_Sidewalk_Quantities.xls	Table of Curb and Gutter Quantities for Project.
WiringTables.xlsx	Signal Wiring Tables for Project.
STArw?.tif	Aerial Photos for ROW Sheet.
DTMNAME_Bluetop.txt	Blue top report for DTM
DTMNAME_Slopestake.txt	Slope stake notes for DTM
mosaicUS##.tif	Aerial Photos for mosaic with Highway suffix - number proceeded by SD or US (EX. SD45)

**XML Staking Files:** U:\rd\prj\COUNPCN#\Staking

PCN#_OriginalDTM.xml	LandXML file containing Original surface data.
PCN#_MainlineALG.xml	LandXML file containing Mainline alignment data
PCN#_MainlineDTM.xml	LandXML file containing Mainline surface data.
PCN#_MainlineTriangles.dgn	Triangles for Mainline surface (MicroStation Format).
PCN#_MainlineTriangles.dwg	Triangles for Mainline surface (AutoCAD Format).
PCN#_ALIGNALG.xml	LandXML file containing ALIGN alignment data.
PCN#_ALIGNDTM.xml	LandXML file containing ALIGN surface data.
PCN#_ALIGNTriangles.dgn	Triangles for ALIGN surface (MicroStation Format).
PCN#_ALIGNTriangles.dwg	Triangles for ALIGN surface (AutoCAD Format).

Note: See Alignment Names above for ALIGN

**Other Folders:**(U:\rd\prj\COUNPCN#)

Documents	Contains documents for the Project.
Drainage*	Contains all drainage related files for the Project.
Consultant Files	Folder for subfolders of consultant files not in Section B.
Section?	Subfolder for Section ( EX. SectionC ) (Except Section?.pdf) <i>For the Project Design Consultant Files Only</i>
Email*	For E-Mail relating to the Project.
Images	Folder for subfolders of pictures/videos for Project.
Month Day, Year*	Subfolder name-( EX. October 28, 1999)
LandownerMeeting	Contains all files related to Landowner Meetings for the Project.
Other Agencies*	Folder for subfolders for files received from other agencies. Create a subfolder for each agency.
Accident Reports*	Other Agencies subfolder for Accident Reports related to the Project
PublicMeeting	Contains files related to Public Meeting for the Project.
Noise	Contains all files for Project Noise Study
Review	Contains plan review comments for the Project.
Staking	Contains all files for Staking Information for Project.
Scope Options*	Contains all files for Corridor Scope Design Options.
Temp*	Contains all temporary files for Project. Folder will be deleted when archived.
Utilities*	Contains all files for Utility Coordination.
Traf*	Contains all files for Signal Timing and Progression and Lighting.

\* Additional subfolders acceptable

**Note:** If other folders are needed please work with your supervisor before creating new folders.



## County Abbreviation Naming Convention

County	Abbr	FIPS Code	DOT Code	UTM Zone	SPC Zone
Aurora	auro	3	2	14	South
Beadle	bead	5	3	14	North
Bennett	benn	7	4	14	South
Bon Homme	bonh	9	5	14	South
Brookings	brok	11	6	14	North
Brown	brwn	13	7	14	North
Brule	brul	15	8	14	South
Buffalo	buff	17	9	14	South
Butte	bute	19	10	13	North
Campbell	camb	21	11	14	North
Charles Mix	cmix	23	12	14	South
Clark	clrk	25	13	14	North
Clay	clay	27	14	14	South
Codington	codn	29	15	14	North
Corson	cors	31	16	14	North
Custer	cust	33	17	13	South
Davison	davs	35	18	14	South
Day	day	37	19	14	North
Deuel	duel	39	20	14	North
Dewey	dewy	41	21	14	North
Douglas	doug	43	22	14	South
Edmunds	edms	45	23	14	North
Fall River	friv	47	24	13	South
Faulk	falk	49	25	14	North
Grant	grnt	51	26	14	North
Gregory	greg	53	27	14	South
Haakon	hakn	55	28	14	South
Hamlin	haml	57	29	14	North
Hand	hand	59	30	14	North
Hanson	hans	61	31	14	South
Harding	hard	63	32	13	North
Hughes	hugh	65	33	14	South
Hutchinson	huch	67	34	14	South

County	Abbr	FIPS Code	DOT Code	UTM Zone	SPC Zone
Hyde	hyde	69	35	14	North
Jackson	jack	71	36	14	South
Jerauld	jrlld	73	37	14	South
Jones	jons	75	38	14	South
Kingsbury	king	77	39	14	North
Lake	lake	79	40	14	South
Lawrence	lawr	81	41	13	North
Lincoln	linc	83	42	14	South
Lyman	lymn	85	43	14	South
McCook	mcck	87	44	14	South
McPherson	mcph	89	45	14	North
Marshall	mrsh	91	46	14	North
Meade	mead	93/993	47	13	North
Mellette	mell	95	48	14	South
Miner	minr	97	49	14	South
Minnehaha	minn	99	50	14	South
Oglala Lakota	ogla		57	13	South
Moody	mody	101	51	14	South
Pennington	penn	103/903	52	13	South
Perkins	perk	105	53	13	North
Potter	pott	107	54	14	North
Roberts	robt	109	55	14	North
Sanborn	sanb	111	56	14	South
Shannon*	shan	113	57	13	South
Spink	spnk	115	58	14	North
Stanley	stan	117	59	14	South
Sully	suly	119	60	14	North
Todd	todd	121	61	14	South
Tripp	trip	123	62	14	South
Turner	turn	125	63	14	South
Union	unin	127	64	14	South
Walworth	wlth	129	65	14	North
Yankton	yank	135	68	14	South
Ziebach	zieb	137	69	14	North

**\*Shannon County was renamed Oglala Lakota County in 2015**

## **MicroStation Print Organizer**

### **This documentation assumes:**

- MicroStation V8i.
- Bentley Configuration Utility has been run.
- MicroStation is open.

## **File > Print Organizer**

### **File > Add Files to Set...**

Select **Add**

Add desired files.

(Alternatively, you can drag and drop design files into the Print Set hierarchical view from Windows Explorer.)

From Print definition creation options

**Browse** (Magnify Glass)

Select desired Print Style

**OK**

### **File > Print**

Select the desired **Print Range**.

Select the desired **Destination**. (Following documented naming convention)

**OK**

**Note:** An error message in the Message Center may indicate the PDF is read-only, or another user may have it open.

## **MicroStation Print – Roll Plotting**

**This documentation assumes:**

- MicroStation V8i.
- Bentley Configuration Utility has been run.
- MicroStation is open.

**Place a Fence** around the desired plot area.

**File > Print**

**File > Select Bentley Driver**

Select SDDOTpdf\_Roll.pltcfg

**Open**

Select the desired **Scale**

**File > Print**

Select the desired **Destination**. (Following documented naming convention)

**OK**

**Note:** An error message in the Message Center may indicate the PDF is read-only, or another user may have it open.

**This creates a large format PDF. To produce a large format paper you will print this PDF to a Windows Printer capable of printing rolls.**

# **MICROSTATION SYMBOLOGY**

## ***Drafter***

SYMB - 2	Curb and Gutter Project Layout	cgPCN#.dgn
SYMB - 2	Drafter Project Layout	dPCN#?.dgn
SYMB - 3	Plan Sheet	STA.dgn
SYMB - 3	Curb and Gutter Plan Sheet	STAcg.dgn
SYMB - 4	Erosion Control Plan Sheet	STAec.dgn
SYMB - 4	Title Sheet for Project	title.dgn
SYMB - 4	Section B Cover Sheet	titleb.dgn
SYMB - 4	Typical Section Sheets for Project	typ.dgn
SYMB - 5	Text sizes for plan sheets	

## ***Engineer***

SYMB - 6	Contours & Triangles Project Layout	cPCN#.dgn
SYMB - 7	Engineer's Project Layout	ePCN#.dgn
SYMB - 7	Pavement Removal Project Layout	prPCN#.dgn
SYMB - 8	Pipe Sheets for Project	pPCN#.dgn
SYMB - 8	Cross Section Sheets for Project	xPCN#.dgn

## ***R.O.W***

SYMB - 9	ROW Project Layout	rPCN#.dgn
SYMB - 10	Plat	STAp.dgn
SYMB - 10	Exhibits	STAc.dgn

## ***TOPOG***

SYMB - 11	Topography Project Layout	tPCN#?.dgn
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## ***Traffic***

SYMB - 13	Signal Wiring Diagram	STAw.dgn
SYMB - 13	Lighting Wiring Diagram	STASTAw.dgn
SYMB - 13	Conduit Sheet	STAc.dgn
SYMB - 13	Lighting Sheet	STASTAl.dgn
SYMB - 13	Pavement Marking Sheet	STAp.m.dgn
SYMB - 13	Existing Signal Sheet	STAc.s.dgn
SYMB - 13	Signal Sheet	STAs.dgn

All font is Arial size 18 =Rural, 9 = Suburban, 3.6 = Urban unless listed below.

<b>AS = 1    200 Scale Rural (11 x 17 sheet)</b>	<b>Description</b>	<b>Text-(Size)</b>	<b>Level</b>	<b>Color</b>
Begin/End Notes		28/20	15	6
Subordinate, Exception, Structure Notes		25/20	15	6

<b>AS = .5    100 Scale Suburban (11 x 17 sheet)</b>	<b>Description</b>	<b>Text-(Size)</b>	<b>Level</b>	<b>Color</b>
Begin/End Notes		14/10	15	6
Subordinate, Exception, Structure Notes		12.5/10	15	6

<b>AS = .2    40 Scale Urban (11 x 17 sheet)</b>	<b>Description</b>	<b>Text-(Size)</b>	<b>Level</b>	<b>Color</b>
Begin/End Notes		5.6/4	15	6
Subordinate, Exception, Structure Notes		5/4	15	6

## **Levels, Color, Weight & Style For Drawings**

ALL LINE STYLES ARE A STYLE OF 0 IF NOT SPECIFIED

<i>cgPCN#.dgn</i>	<b>LEVELS</b>	<b>COLOR</b>	<b>WEIGHT</b>	<b>STYLE</b>	<b>CELLS</b>
MAINLINE HORIZONTAL ALIGNMENT	<b>1</b>	<b>6</b>	<b>5</b>	<b>0</b>	
MAINLINE HORIZONTAL STATIONING	<b>2</b>	<b>6</b>	<b>2</b>	<b>0</b>	
TYPE P GUTTER DRIVEWAY DIMENSIONS	<b>9</b>	<b>2</b>	<b>1</b>	<b>0</b>	
SHOULDER	<b>16</b>	<b>2</b>	<b>1</b>	<b>0</b>	
EDGE OF CONCRETE	<b>17</b>	<b>0</b>	<b>1</b>	<b>0</b>	
CURB & GUTTER	<b>19</b>	<b>2</b>	<b>1</b>	<b>0</b>	
SIDEWALK	<b>19</b>	<b>2</b>	<b>1</b>	<b>0</b>	
APPROACH PAVEMENT	<b>19</b>	<b>2</b>	<b>1</b>	<b>0</b>	
FILLETS	<b>19</b>	<b>2</b>	<b>1</b>	<b>0</b>	
PED POLE AND CLEAR SPACE	<b>20</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>PED30/PED48</b>
MOUNTABLE MEDIAN PAVEMENT	<b>25</b>				
ASPHALT AREAS	<b>26</b>				
SPECIAL TYPES OF PAVEMENT	<b>27</b>				
RETAINING WALLS	<b>30</b>	<b>112</b>	<b>3</b>	<b>0</b>	
BRIDGES OR BOX CULVERETS	<b>30</b>	<b>77</b>	<b>Varies</b>	<b>0</b>	

<i>dPCN#r.dgn</i>	<i>dPCN#s.dgn</i>	<i>dPCN#u.dgn</i>	<b>LEVELS</b>	<b>COLOR</b>	<b>WEIGHT</b>	<b>STYLE</b>	<b>CELLS</b>
MAINLINE HORIZONTAL ALIGNMENT			<b>1</b>	<b>6</b>	<b>5</b>	<b>0</b>	
MAINLINE HORIZONTAL STATIONING			<b>2</b>	<b>6</b>	<b>2</b>	<b>0</b>	
MAINLINE HORIZONTAL BEARINGS			<b>4</b>	<b>6</b>	<b>2</b>	<b>0</b>	
DETOUR ALIGNMENT			<b>10</b>	<b>6</b>	<b>2</b>	<b>0</b>	
DETOUR STATIONING			<b>11</b>	<b>6</b>	<b>5</b>	<b>0</b>	
EASEMENT SHAPE			<b>12</b>	<b>6</b>	<b>2</b>	<b>0</b>	
EASEMENT SHADING			<b>13</b>	<b>3</b>	<b>1</b>	<b>0</b>	
DETOUR BEARINGS			<b>13</b>	<b>9</b>		<b>Outline</b>	
EDGE OF SHOULDER LINES			<b>14</b>	<b>6</b>	<b>2</b>	<b>0</b>	
ENTRANCES			<b>15</b>				
VERTICAL BENCH MARKS			<b>16</b>	<b>2</b>	<b>1</b>	<b>0</b>	
VERTICAL ENTRANCE NOTES			<b>17</b>	<b>2</b>	<b>1</b>	<b>0</b>	
			<b>18</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>BMNOTE</b>
			<b>19</b>	<b>2</b>	<b>2</b>	<b>0</b>	

<i>dPCN#r.dgn</i>	<i>dPCN#s.dgn</i>	<i>dPCN#u.dgn</i>	LEVELS	COLOR	WEIGHT	STYLE	CELLS
VERTICAL ALIGNMENT	20	6	2	0			
VERTICAL SPECIAL DITCH GRADE (LEFT)	20	31	2	0			
VERTICAL SPECIAL DITCH GRADE (RIGHT)	20	30	2	0			
VERTICAL ELEVATIONS	21	6	2	0			
VERTICAL STATIONING	22	6	3	0			
VERTICAL SIDE ELEVATIONS (LEFT/RIGHT)	10-R/23 L						
VERTICAL EARTHWORK NOTES & HAUL NOTES	23	10	2	0			
VERTICAL GRADES	24	6	2	0			
VERTICAL CURVE DATA	25	6	2	0			
VERTICAL SPECIAL DITCH GRADE NOTES (LEFT)	25	31	2	0			
VERTICAL SPECIAL DITCH GRADE NOTES (RIGHT)	25	30	2	0			
FENCE	26	5	1	0			
	27						
Environmental Sensitive Site	28	10	1	0			
	29						
DRAINAGE ARROWS, DITCH BLOCKS, DITCH BLOCK NOTES & FLOWLINE ELEVATIONS	30	77	Varies	0			
PIPE, BOX CULVERTS & STRUCTURES	30	77	8	0			
PERIMETER (WORK LIMITS)	32	2	0	2			
BORROW PIT OR OPTIONAL BORROW PIT	36	2	1	0			
	49						
PROFILE BORDER	50	3	2	0			
PROFILE GRID	51						
PROFILE GRID	52	0	0	1			

<i>STA.dgn</i>	LEVELS	COLOR	WEIGHT	STYLE	CELLS
ROW INFORMATION & SECTION, TOWNSHIP RANGE	20	50/6	Varies	Varies	
LANDOWNER NAMES & LEGAL DESCRIPTION	33	50	Varies	Varies	
CURVE DATA	34	6	2	0	
NORTH ARROW	35	25	3	0	
INSTALL NOTES	36	77	2	0	
RETAIN NOTES & ESS NOTES	36	10	2	0	
DO NOT DISTURB NOTES	36	2	2	0	
TAKE OUT NOTES	37	2	2	0	
EASEMENT NOTES & EASEMENT STATION OFFSETS	38	3	1 & ROW/2	0	
FENCE NOTES	39	5	2	0	
OBLITERATE NOTES	40	2	2	0	
ELIMINATE ENTRANCE NOTES	40	2	2	0	

<i>STAcg.dgn</i>	LEVELS	COLOR	WEIGHT	STYLE	CELLS
CURB AND GUTTER NOTES	20	10			
PLOT SHAPES	45	2	0	7	NAME

<i>STAec.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
EROSION CONTROL DRAWINGS & NOTES	20				
PLOT SHAPE	45				
REVISION NOTES	59				

<i>title.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
NORTH ARROW	2	25	0	0	NARROW
INDEX	11	10			
SECTIONS <u>XX</u>	12				
BEGIN AND END NOTES WITH LEADER & ARROW	15	6	Varies	0	
PCN#S	20	10	5	0	
GROSS LENGTH	20	10	2	0	
PROJECT,LEADER & ARROW	20	10	Varies	0	
PROJECT TITLE DESCRIPTIONS	20	0	1	0	
STATE OF SOUTH DAKOTA	20	0	0	0	
LEGEND	20	10	1	0	
LENGTH OF EXCEPTION	21	10	2	0	
DESIGN DESIGN.,STORM WATER PERMIT & SCALES	21	10	1	0	
INDEX OF SECTIONS	21	10	3	0	
INDEX OF SECTION NOTES	21	10	2	0	
ROW SCALES	22	3	1	0	
R.O.W. TITLE DESCRIPTIONS	22	3	5	0	
NOTES FOR ROW PLANS	22	3	5	0	
STATE MAP	38	10	1	6	
PLOT SHAPE	45	2	0	7	NAME
REVISION NOTE	59	10			

<i>titleb.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
SECTION B TITLE	1	10	5	0	
NORTH ARROW	2	25	Varies	0	NARROW
BEGIN AND END NOTES WITH LEADER & ARROW	15	6	Varies	0	
INDEX OF SHEETS	21	10	3	0	
INDEX OF SHEETS CONTEXT	21	10	1	0	

<i>typ.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
ALL DRAWINGS	1	10	2	0	
DIMINSIONS	1	10	1	0	TX=18
PLOT SHAPES	45	2	0	7	NAME

*The Settings Set Refer to Text For Easements, Easement Notes & ROW*  
*Font=Arial*

<i>DESCRIPTION</i>	<i>SCALE</i>	<i>Color</i>	<i>HEIGHT</i>	<i>WEIGHT</i>	<i>SPACING</i>
<b><i>RURAL</i></b>	<b>200</b>	<b>Varies</b>	<b>18</b>	<b>0</b>	<b>7</b>
<b>For Rural Plan Sheets-Station &amp; Offset for Temporary Easements and for Permanent R.O.W. <i>USE</i></b>					
Easement Station & Offset		<b>3</b>	<b>15</b>	<b>0</b>	<b>7</b>
{Proposed} Permanent R.O.W.		<b>10</b>	<b>15</b>	<b>0</b>	
Easement Notes		<b>3</b>	<b>18</b>	<b>0</b>	
Labeling the Section - Township - Range		<b>50</b>	<b>30</b>	<b>0</b>	
Utilize text 18 & for the rest of the R.O.W. information with the exception to text for lots, blocks, etc. Check with the Existing ROW Specialist on R.O.W.					
<b><i>SUBURBAN</i></b>	<b>100</b>	<b>Varies</b>	<b>9</b>	<b>0</b>	<b>3.5</b>
<b>For Suburban Plan Sheets-Station &amp; Offset for Temporary Easements and for Permanent R.O.W. <i>USE</i></b>					
Easement Station & Offset		<b>3</b>	<b>7.5</b>	<b>0</b>	<b>3.5</b>
{Proposed} Permanent R.O.W.		<b>10</b>	<b>7.5</b>	<b>0</b>	
Easement Notes		<b>3</b>	<b>9</b>	<b>0</b>	
Labeling the Section - Township - Range		<b>50</b>	<b>15</b>	<b>0</b>	
Utilize text 9 for the rest of the R.O.W. information with the exception to text for lots, blocks, etc. Check with the Existing ROW Specialist on R.O.W.					
<b><i>URBAN</i></b>	<b>40</b>	<b>Varies</b>	<b>3.6</b>	<b>0</b>	<b>1.5</b>
<b>For Urban Plan Sheets-Station &amp; Offset for Temporary Easements and for Permanent R.O.W. <i>USE</i></b>					
Easement Station & Offset		<b>3</b>	<b>3</b>	<b>0</b>	<b>1.5</b>
{Proposed} Permanent R.O.W.		<b>10</b>	<b>3</b>	<b>0</b>	
Easement Notes		<b>3</b>	<b>3.6</b>	<b>0</b>	
Labeling the Section - Township - Range		<b>50</b>	<b>6</b>	<b>0</b>	
Utilize text 3.6 for the rest of the R.O.W. information with the exception to text for lots, blocks, etc. Check with the Existing ROW Specialist on R.O.W.					



<i>cPCN#.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
ORIGINAL CONTOURS - MAJOR	10	4	1	0	
ORIGINAL CONTOURS - MINOR		3	0	5	
SUBGRADE CONTOURS - MAJOR	11	4	1	0	
SUBGRADE CONTOURS - MINOR		3	0	5	
UNDERCUT CONTOURS - MAJOR	12	4	1	0	
UNDERCUT CONTOURS - MINOR		3	0	5	
FINISH GRADE CONTOURS - MAJOR	13	4	1	0	
FINISH GRADE CONTOURS - MINOR		3	0	5	
ORIGINAL TRIANGLES	20	2	0	0	
SUBGRADE TRIANGLES	21	3	0	0	
UNDERCUT TRIANGLES	22	4	0	0	
FINISH GRADE TRIANGLES	23	6	0	0	
PROFILE LINES	27				
DATUM LINES	28				
GRIDDED MODEL GRID - ORGINAL	29	2	0	0	
GRIDDED MODEL GRID - SUBGRADE		3	0	0	
GRIDDED MODEL GRID - UNDERCUT		4	0	0	
GRIDDED MODEL GRID - FINISH		6	0	0	
DTM POINT ELEVATIONS-DTM	32				
RANDOM SYMBOLS & CELLS					
DTM BREAKLINE SYMBOLS, CELLS & LINES	33				
DTM CONTOUR SYMBOLS, CELLS & LINES	34				
DTM INFERRED SYMBOLS, CELLS & LINES	35				
DTM INTERIOR SYMBOLS, CELLS & LINES	36				
DTM EXTERIOR SYMBOLS, CELLS & LINES	37				
COLOR-CIDED ELEVATIONS	44				
COLOR-CODED ELEVATIONS	45				
LEGEND & FRAME					
COLOR-CODED SLOPES	46				
COLOR CODED SLOPE	47				
LEGEND TEXT & FRAME					
SLOPE VECTORS & DIRECTION	50				
SEGMENT CROSSING POINT	51				
MISMATCHED ELEVATION	52				

<i>ePCN#.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
MAINLINE HORIZONTAL ALIGNMENT, PC, PT CELLS	<b>1</b>				
MAINLINE HORIZONTAL STATIONING TICKS & TEXT	<b>2</b>				
MAINLINE HORIZONTAL PC, PT LEADERS & TEXT	<b>3</b>				
MAINLINE HORIZONTAL BEARINGS	<b>4</b>				
MAINLINE HORIZONTAL CURVE DATA	<b>5</b>				
EDGE OF SHOULDER LINES	<b>16</b>	<b>2</b>	<b>1</b>	<b>0</b>	
PROFILE GRID (NOT USED)	<b>17</b>				
VERTICAL ALIGNMENT, PC, PT CELLS	<b>20</b>				
VERTICAL PROFILE ELEVATIONS	<b>21</b>				
VERTICAL STATIONS	<b>22</b>				
VERTICAL SIDE ELEVATIONS	<b>23</b>				
VERTICAL GRADES	<b>24</b>				
VERTICAL CURVE DATA	<b>25</b>				
EASEMENT SHADING	<b>28</b>				
EASEMENT NOTES	<b>29</b>				
DRAINAGE	<b>30</b>				
PERIMETER (WORK LIMITS)	<b>32</b>				
ENTRANCES	<b>34</b>				
SPECIAL DITCH TEXT	<b>35</b>				
SPECIAL DITCH CELLS & SYMBOLS	<b>36</b>				
PROFILE TITLE TEXT, BOX & AXIS	<b>50</b>				
PROFILE LEGEND TEXT & BOX	<b>51</b>				
PROFILE GRID	<b>52</b>				

<i>prPCN#.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>PATTERN</i>
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NOTE: All shapes - CO=10, LS=0, WT=1

REMOVE CONCRETE CURB AND/OR GUTTER	<b>46</b>	<b>2</b>	<b>20</b>	<b>3</b>	
REMOVE ASPHALT CONCRETE PAVEMENT	<b>49</b>	<b>12</b>	<b>0</b>	<b>1</b>	Space=4',4' Angle=45,-45
REMOVE CONCRETE PAVEMENT	<b>50</b>	<b>11</b>	<b>1</b>	<b>0</b>	Space=4' Angle=45
REMOVE CONCRETE MEDIAN PAVEMENT	<b>52</b>	<b>212</b>			Area Fill
REMOVE CONCRETE DRIVEWAY PAVEMENT	<b>53</b>	<b>5</b>	<b>1</b>	<b>0</b>	Space=3',3' Angle=60,-60
REMOVE CONCRETE SIDEWALK	<b>54</b>	<b>11</b>			Area Fill

<i>pPCN#.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
TITLE BOX	1				
PIPE END TREATMENT	30	4	1	0	Varies
PIPE FLOWLINE & TOP	31	77	1	0	
PIPE TEXT	32	77	1	0	
PLOT SHAPE	45	2	0	7	
CROSS SECTION FIRST SURFACE - ORIGINAL	50				
CROSS SECTION SECOND SURFACE - SUBGRADE	51				
CROSS SECTION THIRD SURFACE - UNDERCUT	52				
CROSS SECTION FOURTH SURFACE - FINISH	53				
CROSS SECTION FIFTH SURFACE	54				
SHEET TITLE & AXIS-CROSS SECTION ANNOTATION	60				
CROSS SECTION GRID	62	0	0	1	

<i>xPCN#.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
EXCAVATION SHAPE	20	4	1	0	
EXCAVATION SHADE - UNSTABLE MATERIAL		4	1	0	
EXCAVATION SHADE - MUCK	21	6	1	0	
EXCAVATION TEXT - UNSTABLE MATERIAL		4	1	0	
EXCAVATION TEXT - MUCK	22	6	1	0	
ANNOTATION CROSS SECTION - ELEV		4	2	0	
ANNOTATION CROSS SECTION - OFFSET	40	27	2	0	
PLOT SHAPE	45	2	0	7	
CROSS SECTION FIRST SURFACE - ORIGINAL	50	2	2	2	
CROSS SECTION SECOND SURFACE - SUBGRADE	51	3	2	0	
CROSS SECTION THIRD SURFACE - UNDERCUT	52	4	2	3	
CROSS SECTION FOURTH SURFACE - FINISH	53	6	2	0	
CROSS SECTION FIFTH SURFACE	54				
MASS HAUL DATA LINE	55	2	1	0	
MASS HAUL TITLE TEXT		4	0	0	
MASS HAUL AXIS	56	3	2	0	
MASS HAUL LABEL		77	0	0	
MASS HAUL GRID - HORIZONTAL		0	0	1	
MASS HAUL GRID - VERTICAL	58	0	0	1	
CROSS SECTION ADDITIONAL SURFACES	59				
AXIS ANNOTATION		3	2	0	
GRID STATION ANNOTATION	60	7	2	0	
CENTERLINE ELEV ANNOTATION		6	2	0	
CROSS SECTION GRID	62	0	0	1	

<i>rPCN#.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>TEXT R / U</i>	<i>CELLS</i>
MAINLINE HORIZONTAL ALIGNMENT, PC, PT	1	6	5		
MAINLINE HORIZONTAL STATIONING TICKS & TEXT	2	6	2	18 / 3.6	
MAINLINE HORIZONTAL PC, PT LEADERS & TEXT	3	6	0	18 / 3.6	
MAINLINE HORIZONTAL BEARINGS	4	6	2	18 / 3.6	
MAINLINE HORIZONTAL CURVE DATA	20	6	2	30 / 6	
CROSSROAD HORIZONTAL ALIGNMENT, PC, PT CELLS	7	6	5		
CROSSROAD STATIONING TICKS & TEXT	8	6	2		
CROSSROAD HORIZONTAL PC, PT LEADERS & TEXT	9	6	0		
CROSSROAD HORIZONTAL BEARING	10	6	2		
CROSSROAD HORIZONTAL CURVE DATA	11	6	2	30 / 5	
TEMPORARY EASEMENT HATCH AREA	13	3	0	LINE STYLE = 1	
RAILROAD TRACKS	14	50	1		
LINE TEXT FOR BEARINGS & DISTANCE ALONG A LINE	15	50	0	18 / 3.6	
ASSUMED CORNERS	16	7	1	18 / 3.6	
FOUND CORNERS	17	3	1	18 / 3.6	
EXISTING POINTS	18	50	0	18 / 3.6	
PROPOSED POINTS	19	9	0	18 / 3.6	
LABELING SECTION – TOWNSHIP – RANGE	20	50	5	30 / 6	
STATIONING FOR SECTION LINE, ¼ LINE Etc.	20	6	2	18 / 3.6	
LABELING R.O.W. DIMENSION FOR PLANS, SECTION LINES, ¼ LINES, Etc. AND CITY LIMITS, RESERVATIONS, & GOV'T TAKE LINES	20	50	2	18 / 3.6	
CONTROL OF ACCESS	21	10			NEW / EXIST
COUNTY LINES	22	50	5	LINE STYLE = COLN	
SECTION LINES	23	50	4	LINE STYLE = SECLN	
QUARTER LINES	24	50	3	LINE STYLE = QTLN	
MEANDER LINES	25	5	2	LINE STYLE = 4	
EXISTING R.O.W. LINES (HIGHWAY R.O.W. BLOCK ADDITIONS & SUBDIVISION LINES)	25	50	0		
SIXTEENTH LINES	26	50	1		
NEW R.O.W. LINES (PROPOSED HIGHWAY R.O.W. LINES)	27	9	1		
NEW ACCESS EASEMENTS				LINE STYLE = 3	
PROPERTY LINES	28	50	2		
STATE LINES			5	LINE STYLE = STLN	
CITY LIMITS	29	50	20	LINE STYLE = 7	
EXISTING ACCESS EASEMENTS			0	LINE STYLE = 1	
FOUND CORNER N&E COORDINATES	30	7	0	30	FCOR
LANDOWNER NAMES & LEGAL DESCRIPTION	33	50	2	18 / 3.6	
PROPOSED ROW (After Property Disposal)	37	188	4	LINE STYLE = 3	
PERMANENT ROW STATION OFFSET	38	10	2	18 / 3.6	
ROW Default Elements	51	39	5		
MISCELLANEOUS	59	Varies	Varies	Varies	
AREA NUMBERS	60	Varies	Varies	Varies	
ROW Main Points	62	6	2	18 / 3.6	
Area Shapes	63	6	3		

**MISC.-LEVELS NEEDED ON FROM THE TPCN#S\*.DGN FILE TO ESTABLISH EXISTING RIGHT OF WAY**

**(7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 25, 29, 31, 35, 52 & 56)**

<i>STAp.dgn &amp; STAe.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>TEXT 300 SCALE</i>	<i>CELLS</i>
GEN. REPORT\NEW & EXIST AREA\LEGAL DESC. SHADING, X HATCHING	<b>1</b>	<b>4 9</b>	<b>2 0</b>	<b>30</b>	
BORDER \ CURVE DATA \ NEW & EXIST R.O.W. DIMENSIONS \ PROPERTY DESCRIPTION	<b>20</b>				
FOUND CORNER N&E CORNINATES	<b>30</b>	<b>7</b>	<b>0</b>	<b>30/</b>	<b>FCOR</b>
PLOT SHAPE	<b>45</b>	<b>2</b>	<b>0</b>	<b>9</b>	<b>NAME</b>
SHAPES	<b>63</b>				

<i>tPCN#r.dgn</i>	<i>tPCN#s.dgn</i>	<i>tPCN#u.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
AZIMUTH MARKERS							AZIMKR
REFERENCE MARKS			1	6			REFMRK
TRIANGULATION STATIONS				0			TRISTA
BENCH MARKS			2	6			BNCHMK
RETAINING WALLS			7	10	6	0	
EDGE OF OTHERS			9	47	0	0	
EDGE OF SHOULDERS				195	0	3	
CENTERLINES			10	28			
EDGE OF CONCRETE				10	0	0	
EDGE OF ASPHALT			11	44	0	0	
CONCRETE SYMBOLS				10			CONC
APPROACHES \ EDGE OF GRAVEL			12	90	0	0	
CURB & GUTTER \ CURB \ GUTTER			13	10	1	Varies	
RAILROADS			14	50	Varies	Varies	VARIES
SIDEWALKS			15	10	0	0	
ASSUMED CORNERS			16	7			ACORN
FOUND CORNERS			17	3	1	0	BARCAP
BEARING TREE			17	3	1	0	BTREE
RAILROAD PROFILE			18	4	0	0	
BUSHES \ TREES			21	3	1	0	VARIES
FENCE			25	19	0 \ 1	Varies	
GUARDRAIL			27	19	1	GRAIL	
ENVIRONMENTAL SENSITIVE SITE			28	10	1	ESS	
DAM GRADES\DIKE\LEVEE			29	31	1	0	
DITCH BLOCKS				31			DTCHBK
DRAINAGE PROFILES \ IRRIGATION DITCHES			30	31	2	4 \ 1	
LAKES EDGE				31	1	3	
CREEK EDGE \ RIVER EDGE			31	31	2	5 \ 7	
SPRING				31			SPRING
STREAM GAUGE				31			STMGAG
SLOUGHS OR MARSHES			32	31			SLOUGH
PIPES			33	31	1	Varies	
STORM SEWERS				25	1	STSEWR	VARIES
BOX CULVERTS AND BRIDGES			35	31	1	0	
WINGWALLS				31	3	0	
UNDERGROUND ELECTRICAL UTILITIES			40	2	1	UNELEC	VARIES
UNDERGROUND GAS UTILITIES			41	4	0 or 1	VARIES	VARIES
UNDERGROUND TELEPHONE UTILITIES			42	18	1	VARIES	VARIES
UNDERGROUND WATER UTILITIES			43	31	1	UNWATR	VARIES
SANITARY SEWER			44	25	1	SANSEWR	VARIES
PUBLIC TELEPHONES			46	18	1	0	PUBTEL

<i>tPCN#r.dgn</i>	<i>tPCN#s.dgn</i>	<i>tPCN#u.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
TELEPHONE POLES				<b>18</b>	<b>1</b>	<b>0</b>	<b>TELPOL</b>
TELEVISION CABLE JCT. BOX	<b>47</b>		<b>18</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>TVBOX</b>
TELEVISION TOWER			<b>18</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>TVTWER</b>
MISC.MANHOLE	<b>48</b>		<b>17</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>MISCMH</b>
ABOVE GROUND UTILITIES	<b>49</b>		<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>POWERP</b>
TRAFFIC SIGNALS	<b>50</b>		<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>TRASIG</b>
BUILDING	<b>52</b>		<b>17</b>	<b>1</b>	<b>0 or 5</b>		
GRAIN BINS			<b>17</b>				<b>GRNBIN</b>
MAILBOXES	<b>53</b>		<b>17</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>MAILBX</b>
BULK TANKS	<b>54</b>		<b>4</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>BULKTK</b>
GAS PUMP ISLAND	<b>54</b>		<b>4</b>	<b>0</b>	<b>GASISL</b>		
UNDERGROUND TANKS	<b>54</b>		<b>4</b>				<b>UNTANK</b>
SIGNS \ STREET MARKERS	<b>55</b>		<b>17</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>STMRK</b>
MISC. TOPOGRAPHY	<b>56</b>			<b>Varies</b>	<b>Varies</b>	<b>Varies</b>	<b>Varies</b>
TRAFFIC SIGNS	<b>57</b>		<b>3</b>				<b>Varies</b>
TEST WELLS \ BORE HOLES	<b>60</b>		<b>4</b>				<b>TSTWLL</b>
SUBSURFACE UTILITY EXPLORATION TEST HOLE	<b>60</b>		<b>0</b>				<b>TSTSUE</b>
DSCON LINES	<b>62</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
GROUND SHOTS	<b>63</b>		<b>0</b>				

<i>STAw.dgn</i>	<i>STASTAw.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
DRAWING TEXT		38	5 5	1 1	0 or 1 0	Varies
PLOT SHAPE		45	2	0	7	NAME

<i>STAc.dgn</i>	<i>STASTAl.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
EXISTING SIGNAL POLE / EXISTING CONTROLLER		35	100	1	0	SPOLEX CONTRX
LUMINAIRE / LUMINAIRE POLE		36	0 or 2	1	0	Varies
MAST ARM		37	100	1	0	Varies
CONDUIT TEXT		38	101 5	4 1	0 or 1 0	Varies
SIGNAL POLE		39	100	1	0 or 1	SPOLE
MASKING CELLS		40	Varies	Varies	Varies	Varies
PEDESTRIAN / DETECTOR LOOP			Varies	1	0 or 1	Varies
CONTROLLER / SERVICE CABINET		41	26 or 100	1	0 or 1	Varies
JUNCTION BOX / EXISTING JUNCTION BOX		42	100	1	0 or 1	Varies
SECONDARY CONDUIT		43	101	4	0 or 1	Varies
SECONDARY JUNCTION BOX		44	100	1	0 or 1	Varies
PLOT SHAPE		45	2	0	7	NAME

<i>STAp.m.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
TEXT	38	5	1	0	
MASKING CELLS	40	Varies	Varies	Varies	Varies
PLOT SHAPE	45	2	0	7	NAME
PAVEMENT MARKING LINES - INTERSTATE	54	8 or 20	4	0	Varies
PAVEMENT MARKING LINES	55	8 or 20	4	0	Varies

<i>STAs.dgn</i>	<i>LEVELS</i>	<i>COLOR</i>	<i>WEIGHT</i>	<i>STYLE</i>	<i>CELLS</i>
TEXT	38	5	1	0	
MASKING CELLS	40	Varies	Varies	0 or 1	Varies
PLOT SHAPE	45	2	0	7	NAME